WEEKLY EPIDEMIOLOGY BULLETIN

NATIONAL EPIDEMIOLOGY UNIT, MINISTRY OF HEALTH, JAMAICA

Weekly Spotlight

Global immunization coverage sustained in the past five years

The latest WHO and UNICEF data on global immunization coverage show that 86% of the world's children received the required 3 doses of diphtheria-tetanus-pertussis containing vaccines (DTP3) in 2015, a coverage level that has been sustained above 85% since 2010.



As a result, the number of children who did not receive routine

vaccinations has dropped to an estimated 19.4 million, down from 33.8 million in 2000.

However, this progress falls short of global immunization targets of the Global Vaccine Action Plan (GVAP) for the Decade of Vaccines of achieving 90% or more DTP3 vaccination coverage at the national level and 80% or more in all districts² in all countries by 2015.

Among the 194 WHO Member States, 126 countries achieved and sustained the 90% immunization target for DTP3, up from 63 in 2000. Many of these countries, especially the low and middle income countries, need to continue strengthening their health systems as they add vaccines to their national programmes so that coverage with all vaccines reach and sustain at the 90% or more target.

The updated WHO/UNICEF estimates also show that coverage with vaccines other than DTP, has improved. Worldwide, the number of children protected against hepatitis B is high and increasing steadily. In 2000, just 29% of children received three doses of vaccine against the viral disease; this has increased to 84% in 2015. However, more still needs to be done to ensure that all infants receive a hepatitis B vaccine dose within their first 24 hours of life.

Source:http://who.int/immunization/newsroom/press/immunization_coverage_july_2016/en/

EPI WEEK 26



SYNDROMES

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GASTROENTERITIS

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RESEARCH PAPER

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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



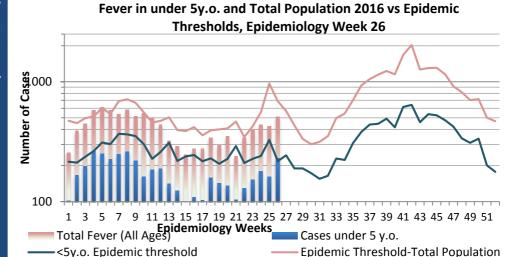
REPORTS FOR SYNDROMIC SURVEILLANCE

FEVER

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







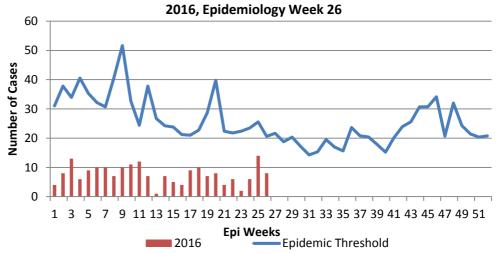
FEVER AND NEUROLOGICAL

Temperature of >380C /100.40F (or recent history of fever) in a previously healthy person with or without headache and vomiting. The person must also have meningeal convulsions. irritation. altered consciousness. altered sensory manifestations or paralysis (except AFP).





Fever and Neurological Symptoms Weekly Threshold vs Cases 2016 Epidemiology Week 26



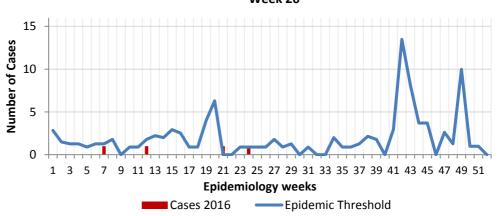
FEVER AND HAEMORRHAGIC

Temperature of $>38^{\circ}C$ /100.4°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 Haem Weekly Threshold vs Cases 2016, Epidemiology Week 26





NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued

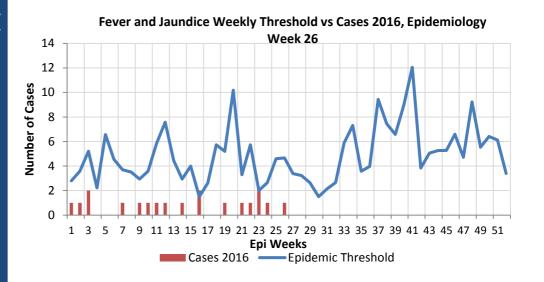


FEVER AND JAUNDICE

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





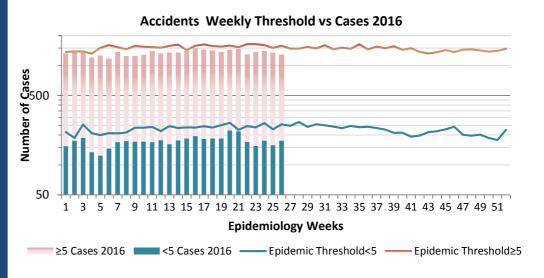


ACCIDENTS

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







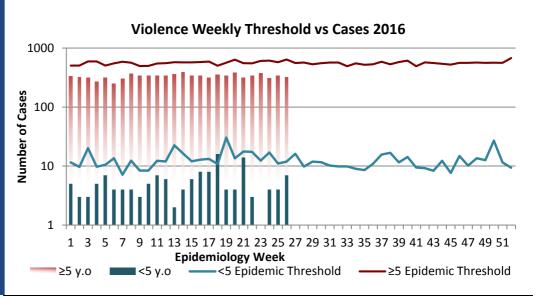
VIOLENCE

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

The epidemic threshold is used to confirm the emergence of an epidemic so as to step-up appropriate control measures.









NOTIFICATIONS-All clinical sites



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CLASS ONE NOTIFIABLE EVENTS

Comments

	CLASS 1 EVENTS		CONFIR	AFP Field Guides	
			CURRENT YEAR	PREVIOUS YEAR	from WHO indicate that for an effective surveillance
AL	Accidental Poisoning		18	96	system, detection rates for AFP
NO.	Cholera		0	0	should be
ATI	Dengue Hemorrhagic Fever ¹		2	0	1/100,000 population under
EST	Hansen's Disease (Leprosy)		1	0	15 years old (6 to 7)
L /INTERN INTEREST	Hepatitis B		15	26	cases annually.
L/J	Hepatitis C		4	2	
NATIONAL /INTERNATIONAL INTEREST	HIV/AIDS -	See HIV/AIDS Natio	nal Programme Re	port	Pertussis-like syndrome and
ATI	Malaria (Imported)		1	0	Tetanus are
Z	Meningitis		10	56	clinically confirmed
EXOTIC/ UNUSUAL	Plague		0	0	classifications.
<u> </u>	Meningococcal Meningitis		0	0	The TB case
H IGH MORBIDIT, MORTALIY	Neonatal Tetanus		0	0	detection rate
H 1 [OR]	Typhoid Fever		0	0	established by PAHO for Jamaica
ΣΣ	Meningitis H/Flu		0	0	is at least 70% of
	AFP/Polio		0	0	their calculated estimate of cases in
	Congenital Rubella Syndrome		0	0	the island, this is
70	Congenital Syphilis		0	0	180 (of 200) cases per year.
AMES	Fever and Rash	Measles	17	2	per year.
AM		Rubella	0	0	*Data not available
OGR	Maternal Deaths ²		23	24	
PRO	Ophthalmia Neonatorum		202	166	1 Dengue Hemorrhagic Fever data include
IAL	Pertussis-like syndrome		0	0	Dengue related deaths;
SPECIAL PROGRAN	Rheumatic Fever		1	9	2 Maternal Deaths
	Tetanus		0	1	include early and late deaths.
	Tuberculosis		0	0	
	Yellow Fever		0	0	
	Chikungunya Zika Virus		0	1	
			24	0	



All









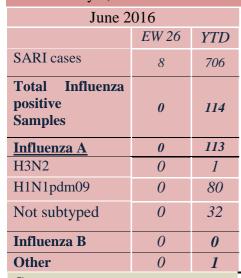


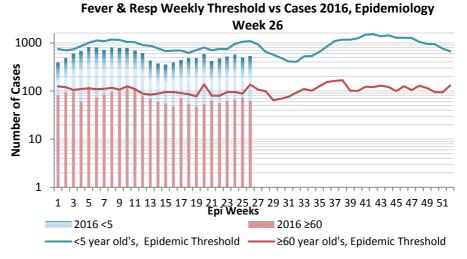
NATIONAL SURVEILLANCE UNIT INFLUENZA REPORT

June 26-July 2, 2016

Epid	lemio]	logy	W	eel	<u>c</u> 2	6

EW 26

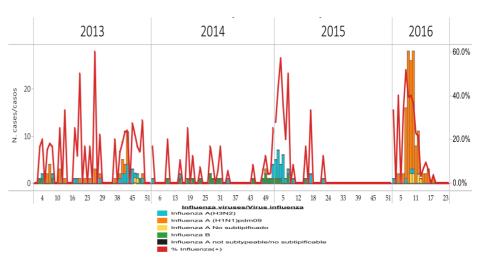




Comments:

The percent positivity among all samples tested from EW 1 to EW 8, 2016 is 40.3% (N= 77)

Influenza A(H1N1)pdm09 continued to circulate in EWs 1 to 8 as the predominant virus at 97%. No Influenza B viruses have been detected since 2016. In addition, there has been no detection of the influenza A/H3v or A/H1v variant viruses, or avian H5 and H7 viruses among human samples tested.



INDICATORS

Burden

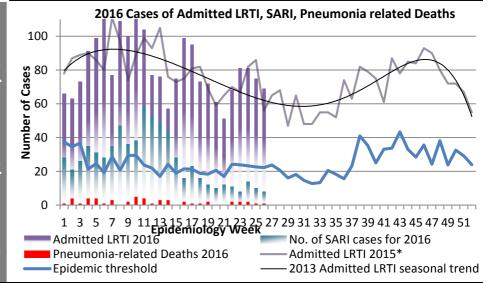
Year to date, respiratory syndromes account for 4.2% of visits to health facilities.

Incidence

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

Prevalence

Not applicable to acute respiratory conditions.



*Additional data needed to calculate Epidemic Threshold



NOTIFICATIONS-All clinical sites



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HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued

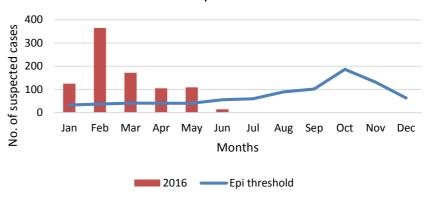


Dengue Bulletin

June 26-July 2, 2016

Epidemiology Week 26

2016 Cases vs. Epidemic Threshold



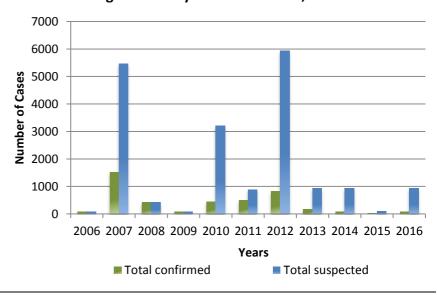
DISTRIBUTION Year-to-Date Suspected Dengue Fever Un-M **Total** % kwn 4 9 14 <1 0 1 1-4 38 15 23 0 5 5-14 87 89 3 178 19 15-24 72 106 1 175 20 25-44 111 247 4 309 29 45-64 23 50 0 115 10 ≥65 4 10 0 14 2 Unknown 30 58 10 97 14 100 **TOTAL** 956 346 592 18

Suspected Dengue Fever Cases per 100,000 Suspected Cases (Per 100,000 **Parish Population** 50.0 42.7 36.3 Population) 40.0 27.9 30.0 23.9 22.3 20.5 17.4 20.0 12.9 10.0 10.0 ME LE SUME OR SI FOR SIF SI NEW SIC OR SIN

Weekly Breakdown of suspected and confirmed cases of DF,DHF,DSS,DRD

		20			
		EW 26	YTD	2015 YTD	
Total Suspected Dengue Cases		4	956	30	
Lab Confirmed Dengue cases		0	68	2	
CONFIRMED	DHF/DSS	0	2	0	
	Dengue Related Deaths	0	0	0	

Dengue Cases by Year: 2004-2016, Jamaica







INVESTIGATION
REPORTS- Detailed Follow
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HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



Gastroenteritis Bulletin

EW

June 26-July 2, 2016

Epidemiology Week 25

26

Weekly Breakdown of Gastroenteritis cases

Year	EW 26			YTD		
	<5	≥5	Total	<5	≥5	Total
2016	171	297	468	3,868	6,132	10,000
2015	132	181	313	6,706	6,776	13,482

Figure 1: Total Gastroenteritis Cases Reported 2015-2016

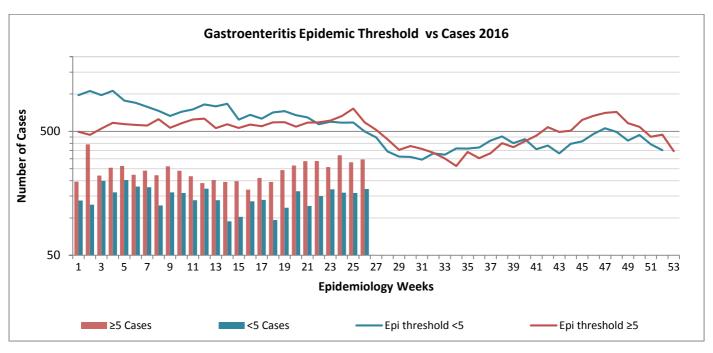
Gastroenteritis:

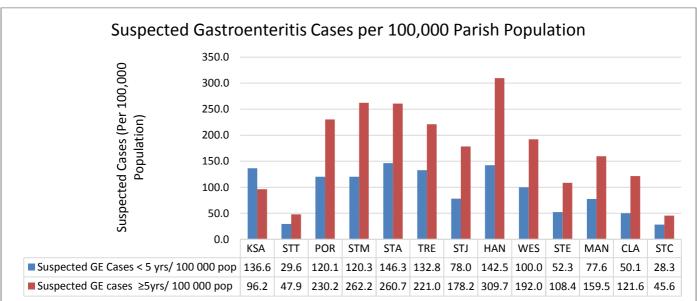
In Epidemiology Week 26, 2016, the total number of reported GE cases showed a 11% increase compared to EW 26 of the previous year.

The year to date figure showed a 30% decrease in cases for the period.











NOTIFICATIONS-All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites*. Actively pursued



RESEARCH PAPER

A Comparison of the Nutritional Status of HIV- positive Children living in Family Homes and an 'Institutionalized' Children's Home

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Epidemiology Research and Training Unit, Ministry of Health, Kingston, Jamaica

Objective: To assess the nutritional status of HIV-infected children living in family homes and in an institution.

Design and Method: A cross-sectional descriptive study was conducted involving 31 HIV- positive children with anthropometric measurements used as outcome indicators. The children who met the inclusion criteria were enrolled, and nutritional statuses for both sets of children were assessed and compared.

Results: Fifteen of the children (48.4%) lived in family homes and sixteen (51.6%) in the institution, with a mean age of 7.2 ± 3.2 years. Significant differences between the two settings were found for the means, Weight-For-Height, WFH (p=0.020) and Body Mass Index, BMI (p=0.005); children in family homes having significantly better WFH and BMI. Four of the children (13.3%) were underweight; 3 from the institution (18.8%) and 1 (6.7%) from a family home. Two children (6.9%) were found to be 'at risk' of being overweight.

Conclusion: Although anthropometric indices for most of these children are within the acceptable range, there seems to be significant differences in nutritional status between infected children resident in family homes, and those in the institution. The factors responsible for such differences are not immediately obvious, and require further investigation. The influence of ARV therapy on nutritional outcomes in these settings require prospective studies which include dietary, immunologic and biochemical markers, in order to provide data that may help to improve the medical nutritional management of these children.



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sites







