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

Biological Weapons: Series 6 of 10: Cholera

Overview: Cholera is an acute diarrhoeal infection caused by eating or drinking food or water that is contaminated with the bacterium Vibrio cholerae. Cholera remains a global threat to public health and is an indicator of inequity and lack of social development. Researchers have estimated that every year, there are 1.3 to 4.0 million cases of cholera, and 21 000 to 143 000 deaths worldwide due to the infection. Cholera is an extremely serious disease that can cause severe acute watery diarrhoea with severe dehydration. It takes between 12 hours and 5 days for a person to show symptoms after consuming contaminated food or water. Cholera affects both children and adults and can kill within hours if untreated. Most people infected with Vibrio cholerae do not develop any symptoms, although the bacteria are present in their faeces for 1-10 days after infection. This means the bacteria are shed back into the environment, potentially infecting other people. Cholera is often predictable and preventable. It can ultimately be eliminated where access to clean water and sanitation facilities, as well as good hygiene practices, are ensured and sustained for the whole population.

Prevention and Control: Measures for the prevention of cholera mostly consist of providing clean water and proper sanitation to populations who do not yet have access to basic services, as well as vaccination with Oral Cholera Vaccines. Health education and good food hygiene are also essential. Communities should be reminded of basic hygienic behaviours. These include the need to always wash hands with soap after defecation and before handling food or eating, as well as safe preparation and conservation of food. Strengthening surveillance and early warning systems are important measures to allow detection of the first cases in an outbreak and to put in place control measures as quickly as possible. Preventing and controlling cholera requires interventions beyond the health sector and it is vital to engage with partners across other sectors. The development and implementation of multi-sectoral cholera control plans is a useful mechanism to bring together all relevant sectors, and forge lines of communication and coordination that are valuable beyond cholera control.

Vaccines: Since the creation of the global stockpile in 2013, more than 50 million doses of Oral cholera vaccines (OCV) have been successfully used in various settings through mass campaigns. OCV is a tool that is used in addition to classic cholera control measures. It should be systematically considered in both endemic cholera hotspots as well as during outbreaks and emergencies. OCV are safe and effective and are just one tool in a much larger toolbox that includes sustainable safe water, sanitation, and hygiene (WASH), but serve as a critical bridge to these longer-term efforts.

EEK 12 SYNDROMES PAGE 2 CLASS 1 DISEASES PAGE 4 **INFLUENZA** PAGE 5 **DENGUE FEVER** PAGE 6 GASTROENTERITIS PAGE 7 **RESEARCH PAPER** PAGE 8

SAFE WATER, SAFE FOOD CHOLERA is a water-borne disease, spread by contaminated food or water. Cholera causes acute watery diarrhoea (watery stool), and if left untreated, it can lead to DEATH within hours. Other Symptom Include: Vomiting. HOW TO PREVENT CHOLERA Make Water Safe Use water from reliable sources. Boil water before drinking. Store water in properly sealed of Ensure bottled water is properly before you drink. Safe Food Preparation WASH IT, PEEL IT OR COOK IT. Wash fruits and vegetables I fruits before consuming. k food well, and cover properly en not immediately consumed. Practice Environmental Hygiene Wash Your Hands Wash your hands freq with scap and clean, running water. Wash before and after eating. Wash before a after using the toilet. STOP open defecati STOP indiscriminate Use ash if soap and w are not available.

https://www.who.int/health-topics/cholera#tab=tab_1

Released April 13, 2021

SENTINEL SYNDROMIC SURVEILLANCE Sentinel Surveillance in



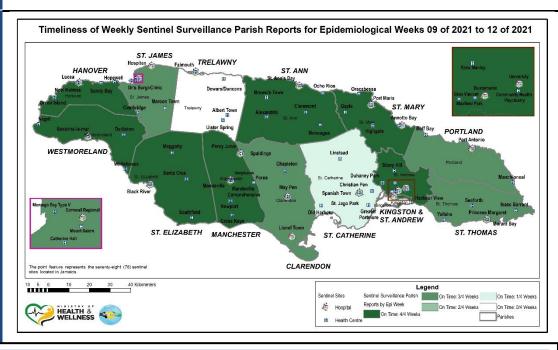


Most Recent Epidemiological Weeks – 09 2021 to 12 of 2021

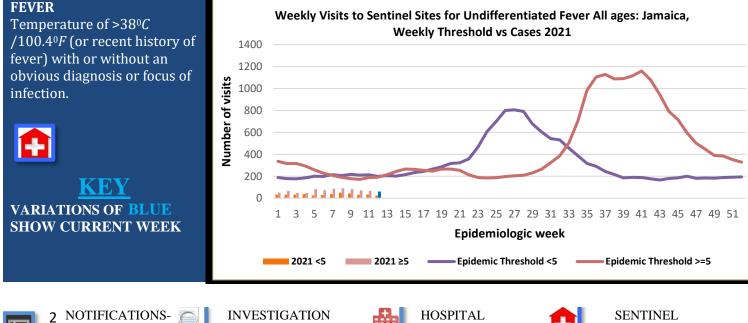
Parish health departments submit reports weekly by 3 p.m. on Tuesdays. Reports submitted after 3 p.m. are considered late. A syndromic surveillance system is good for early detection of and response to public health events.

Sentinel surveillance occurs when selected health facilities (sentinel sites) form a network that reports on certain health conditions on a regular basis, for example, weekly. Reporting is mandatory whether or not there are cases to report.

Jamaica's sentinel surveillance system concentrates on visits to sentinel sites for health events and syndromes of national importance which are reported weekly (see pages 2 -4). There are seventy-eight (78) reporting sentinel sites (hospitals and health centres) across Jamaica.



REPORTS FOR SYNDROMIC SURVEILLANCE



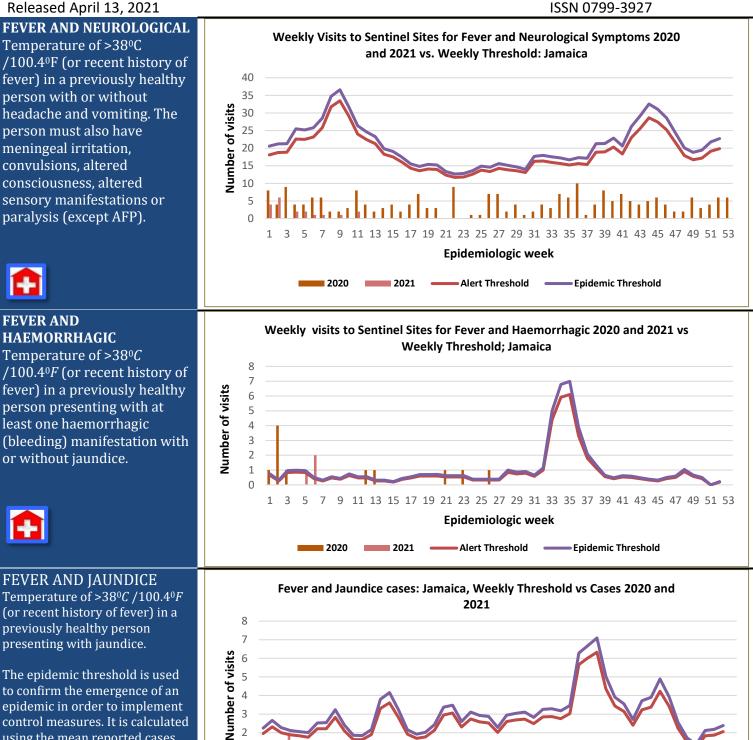
All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



Released April 13, 2021



epidemic in order to implement control measures. It is calculated using the mean reported cases per week plus 2 standard deviations.



NOTIFICATIONS-

All clinical

sites

INVESTIGATION

REPORTS- Detailed Follow

up for all Class One Events

2020

2

1

0

1 3 5 7



2021

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



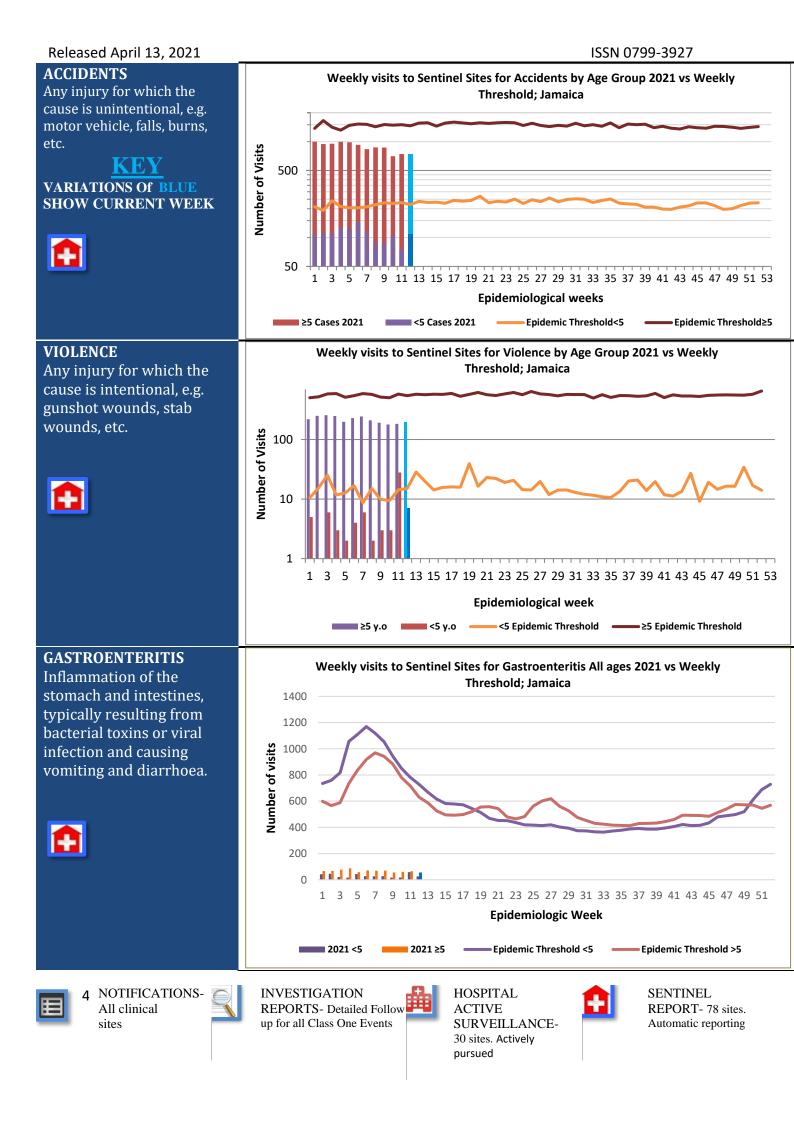
9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53

Epidemiologic Week

Alert Threshold

SENTINEL REPORT- 78 sites. Automatic reporting

Epidemic Threshold



ISSN 0799-3927

CLASS ONE NOTIFIABLE EVENTS

- CLASS C	DNE NOTIFI	ABLE EVENTS			Comments
			Confirmed YTD^{α}		AFP Field Guides
	CLASS 1 EV	/ENTS	CURRENT YEAR 2021	PREVIOUS YEAR 2020	from WHO indicate that for an effective surveillance system,
NATIONAL /INTERNATIONAL INTEREST	Accidental Poisoning		Οβ	37	detection rates for AFP should be 1/100,000 population
	Cholera		0	0	
	Dengue Hemorrhagic Fever ^{γ}		See Dengue page below	See Dengue page below	under 15 years old (6 to 7) cases annually.
	Hansen's Disease (Leprosy)		0	0	
	Hepatitis B		0	0	Pertussis-like syndrome and Tetanus are clinically confirmed classifications.
	Hepatitis C		0	0	
	HIV/AIDS		NA	NA	
	Malaria (Imported)		0	0	
	Meningitis (Clinically confirmed)		0	1	^γ Dengue Hemorrhagic Fever
EXOTIC/ UNUSUAL	Plague		0	0	data include Dengue related deaths;
H IGH MORBIDITY/ MORTALITY	Meningococcal Meningitis		0	0	^δ Figures include all deaths associated with
	Neonatal Tetanus		0	0	
	Typhoid Fever		0	0	pregnancy reported
	Meningitis H/Flu		0	0	for the period.
SPECIAL PROGRAMMES	AFP/Polio		0	0	^ε CHIKV IgM
	Congenital Rubella Syndrome		0	0	positive cases
	Congenital Syphilis		0	0	^θ Zika PCR positive cases
	Fever and Rash	Measles	0	0	$^{\beta}$ Updates made to prior weeks in 2020.
		Rubella	0	0	
	Maternal Deaths ^{δ}		3	12	^α Figures are cumulative totals for all epidemiological
	Ophthalmia Neonatorum		0	38	
	Pertussis-like syndrome		0	0	weeks year to date.
	Rheumatic Fever		0	0	
	Tetanus		0	0	
	Tuberculosis		0	9	
	Yellow Fever		0	0	
	Chikungunya ^ɛ		0	0	
	Zika Virus ^{θ}	Zika Virus ^θ		0	NA- Not Available

All clinical sites



REPORTS- Detailed Follow up for all Class One Events



ACTIVE SURVEILLANCE-30 sites. Actively pursued



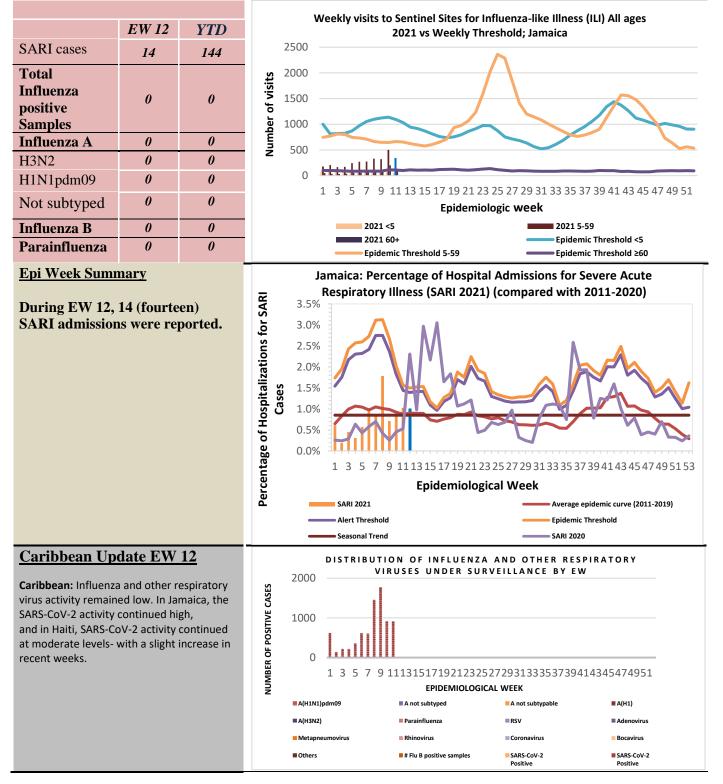
REPORT- 78 sites. Automatic reporting

ISSN 0799-3927

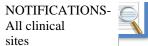
NATIONAL SURVEILLANCE UNIT **INFLUENZA REPORT**

$\overline{EW}12$

March 21, 2021 - March 27, 2021 Epidemiological Week 12



All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

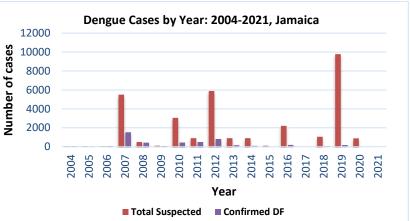


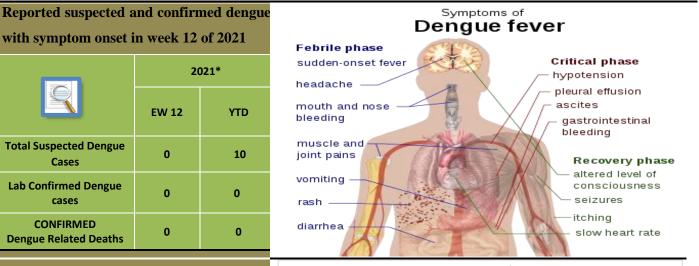
Dengue Bulletin

March 21, 2020 – March 27, 2021 Epidemiological Week 12

Epidemiological Week 12







Suspected dengue cases for 2020 and 2021 versus monthly mean, alert, and epidemic thresholds (2007-2020)

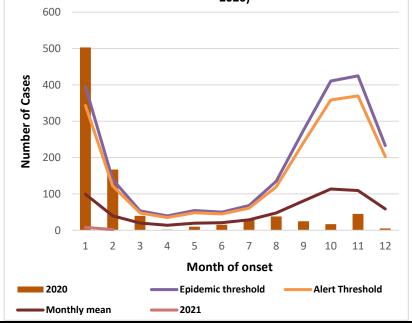
Points to note:

Cases

cases

CONFIRMED

- *Figure as at April 1, 2021
- **Only PCR positive dengue cases** are reported as confirmed.
- IgM positive cases are classified • as presumed dengue.





7 NOTIFICATIONS-All clinical sites

INVESTIGATION REPORTS- Detailed Follow up for all Class One Events

HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued



RESEARCH PAPER

ABSTRACT

Physical Restraint Usage at a Type A Teaching Hospital: A Pilot Study A Barton-Gooden, P Dawkins, J Bennett The UWI School of Nursing, University of the West Indies, Mona, Kingston 7, Jamaica

Objective: To examine the use of physical restraints among adult patients on the medical-surgical wards and psychiatric unit at a type A teaching hospital.

Method: This mixed method exploratory study used restraint prevalence tools to observe 172 patients and conduct 47 chart reviews. Two focus group discussions with nurses (6) and doctors (2) working in the selected areas was conducted. Quantitative data were analyzed using SPSS® version 17.0. Qualitative data were audiotaped, transcribed and thematically analyzed.

Results: Prevalence of physical restraints on the medical-surgical units was 75%, with full or partial bedrails (70%) and limb and trunk devices (5%). No physical restraint use was observed on the psychiatric unit at the time of the study. Limb restraints were inappropriately applied (43%), and no written consent or doctors orders were seen (90%). Discussants were females' ages 20-39 years, with 8-36 months experience in the area. All participants expressed sadness, guilt and fears about restraint usage and reported lack of formal training, inadequate resources and institutional support in applying physical restraints. The majority of study participants (70%) were unaware of both the physical restraint protocol and policy at the institution.

Conclusion: Bedrails were the dominant type of physical restraint used at the type A teaching hospital. Most nurses and doctors were ambivalent about the application of physical restraints which could cause injury to patients and reported lack of training and inadequate institutional support. The pilot study provides evidence for the planned implementation of the national study and the formulation of a multidisciplinary team to inform policy and practice.



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All clinical sites



INVESTIGATION REPORTS- Detailed Follow up for all Class One Events



HOSPITAL ACTIVE SURVEILLANCE-30 sites. Actively pursued

